CITY OF KIRKLAND
Planning and Building Department
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SEPA ENVIRONMENTAL CHECKLIST

UPDATED MAY 2015

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

***Instructions for applicants*:**

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals: [help]

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. Background [help]

1. Name of proposed project, if applicable: **Northwest University Master Plan Update**

2. Name of applicant: **Northwest University (NU)**

3. Address and phone number of applicant and contact person:
   Northwest University
   Contact: John Jordan
   5520 108th Ave NE
   Kirkland, WA 98033
   425-889-7788

4. Date checklist prepared: **May 27, 2016**

5. Agency requesting checklist: **City of Kirkland**

6. Proposed timing or schedule (including phasing, if applicable):

The master plan includes 8 phases (Dates are estimates - While the improvements are characterized as 'phases', the order in which improvements are actually undertaken may vary from the proposed order and dates presented in the master plan submittal & SEPA checklist.):

- **Tennis Center (2017-2020)**
- **Gymnasium (2019-2022)**
- **Welcome Center (2019-2020**
- **Residence Hall (2021-2024)**
- **Field house & Astroturf fields (2021-2024)**
- **Existing Chapel Additions (2022-2024)**
- **Fitness Center (2029-2032)**
- **Ness Academic Center**
  - **Phase 1 (2031-2034)**
  - **Phase 2 (2033-2036)**
  - **Phase 3 (2035-2037)**

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

Yes. Master plan approval allows NU the ability to move forward with specific permitting for each phase.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

Arborist report - tree survey; Civil - Preliminary storm water calculations

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.
None

10. List any government approvals or permits that will be needed for your proposal, if known.

Zoning permit, Traffic Impact Study, SEPA environmental checklist and individual building permits for each building.

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The NU master plan includes the following:

- **Tennis Center**
- **Pavilion/Gymnasium (replace existing gym)**
- **Welcome Center (replace Pecota Hall)**
- **Residence Hall (300 beds)**
- **(2) astro turf soccer fields (replace existing fields) with lighting at the south field and a Field House**
- **Existing Chapel Additions**
- **Fitness Center**
- **Ness Academic Building (replace existing building)**
- **Clarify the FTE cap of 1,200 students to be residential students**
- **Public use of the athletic fields**
- **Increase height limits from the average building elevation for the Tennis Center to 50'-0" & Residence Hall to 60'-0"**
- **Reduce the setback buffer between the NU & the Puget Sound Adventist Academy to 10'-0".**

Site size: Approximately 55 acres
Project size: Approximately 365,069 sf of additional aggregate building area inclusive of garages

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

5520 108th Ave NE, Kirkland, WA 98033, Section: 17, Township: 25, Range: 5

B. ENVIRONMENTAL ELEMENTS [help]

1. Earth [help]

a. General description of the site:

Site gently slopes down from east to west with an overall 6% grade. Adjacent properties have a similar slope. Internally the grade gently undulates mostly due to previous improvement activities.

(circle one): Flat, **rolling**, hilly, steep slopes, mountainous, other _____

b. What is the steepest slope on the site (approximate percent slope)?

Approximately 16% between Argue/HSC building & existing tennis courts. There are steep slopes that occur on the eastern most portion of the campus between the F.I.R.S. housing units and the athletic fields with slopes between 40% and 60% with a maximum toe to top elevation of 16'. These slopes were largely artificially created during the construction of the athletic fields and appear to include engineered stabilization of the slopes. Rockeries and benching of these slopes is evident.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils. [help]

The site soils are predominantly sandy loam in the eastern half of the campus and loamy sand in the western. These soils are USDA NRCS designation "alderwood" and "indianola"

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. [help]

No

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill. [help]

There will be very little regrading of the existing site for the proposed construction. The earthwork will be predominantly related to building foundations and underground parking facilities. The majority of the soils work will be excavation for building structures and removal of surplus material off site. The actual quantities will be determined during design of each phase.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. [help]

No - The construction anticipated by the 2016 Master Plan is all on portions of the Northwest University campus that are historically cleared of native vegetation, graded and finished with stable surfaces. Slopes are moderate or less, and the new construction will serve to further stabilize the site.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? [help]

h.

The Master Plan impact area is approximately 13.2 acres of the 55-acre campus. Approximately 52% of the impact area will be impervious surface after the Master Plan project construction.

i. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: [help]

j.

All construction will be done under permits from the City of Kirkland. The City requires full construction phase erosion and sediment control for all projects through the permit process. And all projects will include site finishes that should eliminate the likelihood of post construction erosion.

2. Air [help]

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known. [help]

- **Vehicle exhaust – worker's commuting to site, construction machinery on site, employees & students commuting to site, on-site maintenance vehicles**
- **Dust from earthwork & construction activities**
- **Asphalt prep & construction**
- **Dust from building materials - cutting, grinding**
- **Painting**

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. [help]

None

c. Proposed measures to reduce or control emissions or other impacts to air, if any: [help]

- **Watering and stabilizing disturbed soils**
- **Dust containment areas for cutting & grinding materials**
- **Recycling solid waste**

3. **Water** [help]

a. Surface Water:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. [help]

Yes. College Creek. On subject property all of the creek is in an underground pipe except 150' (adjacent to existing chapel). The creek is spring fed and receives some storm water runoff from the uplands to the east.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans. [help]

Yes. Approximately 480' of existing underground creek pipe will need to be relocated. Four proposed master plan buildings are within 200' of the exposed creek bed.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material. [help]

None

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. [help]

No surface water diversions.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan. [help]

No

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge. [help]

No

b. Ground Water:

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known. [help]

No

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve. [help]

None

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe. [help]

All runoff from the Master Plan impact areas is expected to be from rainfall. The Tennis Center (Phase 1) project is located in a portion of campus that naturally drains to the south and the public drainage system in NE 53nd Street. The project proposes that runoff from this area be captured and detained in a vault located under the building with flow control release to the public system in NE 53nd Street. The remainder of the impact area naturally drains through campus and a previously-constructed regional detention pond that was sized to accommodate

future development. The Master Plan includes allocation of the available detention storage for each phase of the Plan.

2) Could waste materials enter ground or surface waters? If so, generally describe. [help]

No ground water injection is proposed for the projects of the Master Plan, and the proposed construction does not include activities that generate waste materials.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe. [help]

No – the City of Kirkland drainage code requires that historic drainage patterns are maintained after projects are completed, and code-required flow control detention and Best Management Practices (BMPs) for encouraging natural retention of runoff will be implemented.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: [help]

Proposed measures are expected to include flow control detention vault(s), allocation of portions of the existing regional detention pond, expansion of the pond (if required). And BMPs potentially include raingardens, permeable traffic pavement and pedestrian pavers where possible, and vegetated roof areas. Future building permits will determine.

4. **Plants** [help]

a. Check the types of vegetation found on the site: [help]

__**X**__deciduous tree: alder, maple, aspen, other
__**X**__evergreen tree: fir, cedar, pine, other
__**X**__shrubs
__**X**__grass
____pasture
____crop or grain
____ Orchards, vineyards or other permanent crops.
____ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
____water plants: water lily, eelgrass, milfoil, other
____other types of vegetation

b. What kind and amount of vegetation will be removed or altered? [help]

Vegetation to be altered includes existing ornamental landscape plantings such as rhododendrons, various deciduous shrubs, ornamental perennials and lawn. Some deciduous and evergreen trees such as Douglas fir, western hemlock, western red cedar, sweetgum, ornamental maples and big leaf maple will be removed.

c. List threatened and endangered species known to be on or near the site. [help]

None known

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: [help]

Proposed vegetation includes native trees, shrubs and groundcover, non-invasive drought tolerant ornamental trees, shrubs and groundcover, as well as Rain garden/biofilter adapted native and ornamental Trees, shrubs, perennials, grasses and groundcover. Some lawn areas disturbed by construction will be replaced with new lawn areas, with a net overall reduction in the amount of lawn. Large trees removed will be replaced per the requirements of the City of Kirkland's Tree Ordinance.

e. List all noxious weeds and invasive species known to be on or near the site. [help]
Small patches of English ivy and Himalayan blackberry are occasionally found on site in isolated areas

5. **Animals** [help]

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site. [help]
Songbirds, squirrels

Examples include:

birds: hawk, heron, eagle, songbirds, other:
mammals: deer, bear, elk, beaver, other:
fish: bass, salmon, trout, herring, shellfish, other _____

b. List any threatened and endangered species known to be on or near the site. [help]
None known

c. Is the site part of a migration route? If so, explain. [help]
No

d. Proposed measures to preserve or enhance wildlife, if any: [help]

Engineered storm water & water quality facilities to protect off site water courses; Rain garden/biofilter areas to infiltrate runoff will include native plants, other landscape will include native plants. Proposed landscaping will consist largely of native plantings to enhance existing wildlife habitat.

e. List any invasive animal species known to be on or near the site. [help]
None known

6. **Energy and Natural Resources** [help]

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc. [help]

Electric, natural gas for heating/cooling, lighting, equipment, systems; Potential use of solar power

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. [help]
No

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any: [help]

Future development actions will clarify features for each proposed phase; Potential features include - Solar panels, Green roofs, heat recovery systems, variable control systems, lighting sensors, ground source geothermal

7. **Environmental Health** [help]

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe. [help]

Existing Pavilion/Gymnasium has asbestos. Asbestos removal will occur with the proposed replacement of this building.

1) Describe any known or possible contamination at the site from present or past uses. [help]
Asbestos in the existing Pavilion/Gymnasium and in Gray/Beatty residence hall; an underground gas tank is located under one of the NU maintenance buildings

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity. [help]

Removal of asbestos from existing Pavilion/Gymnasium required

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project. [help]
None

4) Describe special emergency services that might be required. [help] **None**

5) Proposed measures to reduce or control environmental health hazards, if any: [help]

Implement standard asbestos abatement procedures when demolishing the existing Pavilion/Gymnasium.

b. Noise [help]

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? [help]
Traffic Noise from I-405. Mild to moderate noise from nearby schools.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site. [help]

Construction: vehicles, equipment - weekdays during normal business hours
Operation: vehicles - primarily during the day weekdays & weekends; athletic fields – weekday afternoons/evenings, weekends day/evenings (until 9:30pm); building mechanical systems - throughout the day

3) Proposed measures to reduce or control noise impacts, if any: [help]

Construction: anticipate site access at one area - future development actions will clarify
Operation: vehicles - none; athletic fields - limit use to predetermined times, maintain landscape buffers; building mechanical systems - locate away from adjacent properties, protect with sound barriers

8. **Land and Shoreline Use** [help]

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe. [help]

Site: University campus
Adjacent properties to the: North & East - single family residential, South & West - single family residential & schools
Affects to adjacent properties: athletic fields - increased use produces more activity & noise, field lighting extends use into evening hours; proposed buildings - changes visual quality of campus edge, buildings instead of parking lot and trees

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use? [help]

No

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how: [help]

No

c. Describe any structures on the site. [help]

(30) buildings on site: (8) administration, (16) housing, (6) academic

d. Will any structures be demolished? If so, what? [help]

Existing gymnasium/pavilion, Existing student center (Pecota)

e. What is the current zoning classification of the site? [help] **PLA-1**

f. What is the current comprehensive plan designation of the site? [help]

Institutions

g. If applicable, what is the current shoreline master program designation of the site? [help]

N/A

h. Has any part of the site been classified as a critical area by the city or county? If so, specify. [help]

Yes. Where College Creek is day-lighted near the chapel and it's associated buffers. Also some steep slope landslide hazards are mapped on the property but are likely the result of previous grading and development associated with the athletic fields.

i. Approximately how many people would reside or work in the completed project? [help]

Students (residents + commuters):

- **Existing: 1,166**
- **Additional estimated at project completion: 834**

On campus residents:

- **Existing student capacity: 706**
- **Existing staff & faculty capacity: 24**
- **Additional student capacity at project completion: 300**

Faculty, Adjunct Faculty, Staff, Administration, Maintenance:

- **Existing: 365**
- **Additional estimated at project completion: 85**

j. Approximately how many people would the completed project displace? [help]

None

k. Proposed measures to avoid or reduce displacement impacts, if any: [help]

None

L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: [help]

None. Proposal expands existing university uses.

m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any: [help]

None

9. **Housing** [help]

a. Approximately how many units would be provided, if any? Indicate whether high, mid-dle, or low-income housing. [help]

172 units with a total of 300 beds - student residence halls

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. [help]

None

c. Proposed measures to reduce or control housing impacts, if any: [help]

None

10. **Aesthetics** [help]

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed? [help]

60'-0" above average building elevation; Cement board siding

b. What views in the immediate vicinity would be altered or obstructed? [help]

Proposed tennis center along NE 53rd St will replace existing mature trees potentially opening up distant views for some neighbors

c. Proposed measures to reduce or control aesthetic impacts, if any: [help]

Landscape: proposed earth berm & plantings between NE 53rd St. & tennis center to reduce perceived building height & bulk; new plantings around all buildings and plazas to maintain a park-like setting
Architectural character: Northwest wooded in nature consistent with park-like setting
Building materials: Facades modulated with different materials, patterns & bays to reduce scale

11. **Light and Glare** [help]

a. What type of light or glare will the proposal produce? What time of day would it mainly occur? [help]

Exterior security lighting for buildings, plazas, walkways: nighttime
Athletic field lighting: during evening hours up to 9:30pm
Interior building lighting through windows: during evening hours

b. Could light or glare from the finished project be a safety hazard or interfere with views? [help]

No

c. What existing off-site sources of light or glare may affect your proposal? [help]

None

d. Proposed measures to reduce or control light and glare impacts, if any: [help]

Athletic field lighting: use LED fixtures and light shields to reduce/eliminate light spill over on adjacent properties & light pollution
Exterior building lighting: landscape around new facilities, provide light shields to reduce/eliminate light spill over & light pollution

12. **Recreation** [help]

a. What designated and informal recreational opportunities are in the immediate vicinity? [help]

South: School play fields, park

b. Would the proposed project displace any existing recreational uses? If so, describe. [help]

No

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: [help]

Propose to open existing athletic fields to public use - expand recreation opportunities
Propose plazas & new walks for pedestrian use - campus walks

13. **Historic and cultural preservation** [help]

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers located on or near the site? If so, specifically describe. [help]

Greeley Center, 1962, noted on WISARRD, State Historic Preservation Office determined not eligible

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources. [help]

None

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc. [help]

Consulted Dept. of Archeology & Historic preservation's WISAARD data base

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required. [help]

None

14. **Transportation** [help]

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any. [help]

The Northwest University campus is located north of NE 53rd Street and east of 108th Avenue NE. Vehicular access to the campus would be maintained at the existing locations including 2 driveways along 108th Avenue NE and 5 driveways along NE 53rd Street. The access along NE 53rd Street at 111th Avenue NE would be realigned to the east to accommodate the proposed tennis center. See additional detail in the attached

***Transportation Impact Analysis (TIA) Northwest University Master Plan Kirkland Campus,* June 2016 (herein referred to as Transportation Study).**

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop? [help]

The nearest bus stop to the campus is located along 108th Avenue NE approximately 250 feet north of the main driveway at NE 55th Lane. This bus stop serves King County Metro Route 255 and Sound Transit Route 540. An additional bus stop is provided along 108th Avenue NE at NE 53rd Street is served only by Route 255. See additional detail in the Transportation Study.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? [help]

The master plan would construct between 370 and 470 additional parking spaces ands eliminate approximately 120 parking spaces. The net increase in campus parking would be between 250 and 350 parking spaces. Specific, parking supply would be determined during the building permit phase of the Master Plan and would take into consideration projected parking demand based on enrollment and the specific building uses. See Transportation Study.

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private). [help]

Frontage improvements required along NE 53rd St. from 111th Way NE to the Seventh Day Adventist school consist of sidewalk, street trees and planting strip; During master plan build out a traffic light will be required at NE 53rd St. & 108th Ave NE (see Transportation Study)

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe. [help]

No

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates? [help]

Build-out of the Master Plan would generate 3,820 net new daily trips to and from the campus. The peak volumes to and from the campus are expected to occur during the weekday PM peak hour with the Master Plan resulting in approximately 460 net new PM peak hour trips. Truck traffic during the peak period is anticipated to be limited. Trip generation estimates were calculated using traffic counts at the existing campus driveways. See additional detail in the Transportation Study.

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe. [help]

No

h. Proposed measures to reduce or control transportation impacts, if any: [help]

The potential mitigation measures include:

- **Intersection Improvements**
- **Traffic Calming**
- **Parking / Internal Campus Connectivity**
- **Event Management**

Additional detail is provided in the Transportation Study. In addition, the University would be responsible for payment of City of Kirkland transportation impact fees to mitigate general transportation-related impacts of the Master Plan.

15. **Public Services** [help]

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe. [help]

Yes. Fire & police protection, energy & utilities due to increased campus populations and building gross square footage

b. Proposed measures to reduce or control direct impacts on public services, if any. [help]

Expand existing on-site security; Potential use of sustainable energy sources, e.g. solar, green roofs; Potential impact fees

16. **Utilities** [help]

a. Circle utilities currently available at the site: [help]
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other _____

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed. [help]

Sewer: City of Kirkland - Relocate sewer main under NE 55th Lane (on campus)
Water: City of Kirkland - Relocate water main under NE 111th Way (on campus); Extend new water main under NE 55th Lane (on campus)
Communications: Electric Lighwave - underground existing overhead lines along the frontage of NE 53rd St from SDA school to 111th Lane NE and on campus
Electricity: Puget Sound Energy - underground existing overhead lines along the frontage of NE 53rd St from SDA school to 111th Lane NE and on campus
Storm water: City of Kirkland – Relocate storm line to NE 55th Lane (on campus); Connect to NE 53rd St. main (Tennis Center); New storm line & vault at Athletic fields (on campus)
Natural Gas: Puget Sound Energy – existing service to continue
Refuse & Recycling: Waste Management - existing service to continue

C. Signature [help]

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: _____

Name of signee ____Eric L. Drivdahl_____

Position and Agency/Organization ____Principal, Gelotte Hommas Architecture_____

Date Submitted: __July 11, 2016__